

METHODS OF TREATING BLADDER DISORDERS

Abstract of the Invention

5 Methods of treating bladder disorders, including bladder cancer and inflammatory
bladder diseases such as interstitial cystitis are disclosed. The methods include
identifying a mammal that has or is at risk for having a bladder disorder and
administering isolated nucleic acid sequences to the mammal. Nucleic acids used in the
10 methods of the invention contain unmethylated CpG sequences, which are thought to
modulate the immune response. Also included are methods that use nucleic acids
encoding alpha-MSH. The nucleic acid sequences may be administered individually or
together or can be included in the same nucleic acid.

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